

Professional Audio Service Bulletin

Mincom
Division **3M**
COMPANY

BULLETIN NUMBER 21

SUBJECT: Modification Effecting Erase Set Up Voltage At Test Point "1" on Signal Electronic Cards

APPLICABLE TO: All M-79 Recorders
Special Emphasis To 24 Track

PURPOSE: To Prevent Erroneous Bias Failure Indications (Blinking of Record Lights)

EXPLANATION: Due to normal aging of the vactec (L.D.R.), the bias signal at the output of the erase amplifier can fall below the warning circuit threshold. This causes the record lamps to flash without affecting the recording process. This would be more likely to occur on a 24 track recorder since the erase level is set for 1 volt RMS, and the warning threshold is approximately 0.8 volts RMS. This threshold voltage can vary from card to card due to component tolerances.

SOLUTION: Effective with M-79 serial number 500, resistor R-39 (27 ohm) was changed to a 56 ohm resistor. This raises the erase set up level from 1 volt RMS to 2 volts RMS for a 24 track recorder and from 1.2 volt RMS to 2.4 volts RMS for all other track configurations. This change also increases the usable life of the vactec.

PROCEDURE: Replace R-39 on the signal electronics PCB with a 56 ohm ¼ watt resistor Mincom catalog number 83-1520-0349 or equivalent, change your manual set up procedure, page 4-13 section 4-41 step 4 to read 2.0 volt RMS for 24 track and 2.4 volts RMS for other recorders.

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